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P#33

RAW SEQUENCE LISTING

DATE: 02/13/2003

PATENT APPLICATION: US/09/142,524B

TIME: 06:50:35

Input Set : N:\efs\09142524\SPO-103_ST25.txt

Output Set: N:\CRF4\02132003\I142524B.raw

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FEB 19 2003

TECH CENTER 1600/2900

5 <110> APPLICANT: Sone, Toshio
7 Kume, Akinori
9 Dairiki, Kazuo
11 Iwama, Akiko
13 Kino, Kohsuke
17 <120> TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases
21 <130> FILE REFERENCE: SPO-103
25 <140> CURRENT APPLICATION NUMBER: US 09/142,524B
27 <141> CURRENT FILING DATE: 1998-09-09
31 <150> PRIOR APPLICATION NUMBER: PCT/JP97/00740
33 <151> PRIOR FILING DATE: 1997-03-10
37 <160> NUMBER OF SEQ ID NOS: 174
41 <170> SOFTWARE: PatentIn version 3.1
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47 <211> LENGTH: 80
49 <212> TYPE: PRT
51 <213> ORGANISM: Cryptomeria japonica
55 <400> SEQUENCE: 1
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58 1 5 10 15
61 Phe Ile Lys Arg Val Ser Asn Val Ile Ile His Gly Arg Arg Ile Asp
62 20 25 30
65 Ile Phe Ala Ser Lys Asn Phe His Leu Gln Lys Asn Thr Ile Gly Thr
66 35 40 45
69 Gly Arg Arg Ile Ser Leu Lys Leu Thr Ser Gly Lys Ile Ala Ser Arg
70 50 55 60
73 Arg Val Asp Gly Ile Ile Ala Ala Tyr Gln Asn Pro Ala Ser Trp Lys
74 65 70 75 80
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79 <211> LENGTH: 105
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87 <400> SEQUENCE: 2
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90 1 5 10 15
93 Phe Ile Lys Arg Val Ser Asn Val Ile Ile His Gly Arg Arg Ile Asp
94 20 25 30
97 Ile Phe Ala Ser Lys Asn Phe His Leu Gln Lys Asn Thr Ile Gly Thr
98 35 40 45
101 Gly Arg Arg Trp Lys Asn Asn Arg Ile Trp Leu Gln Phe Ala Lys Leu
102 50 55 60
105 Thr Gly Phe Thr Leu Met Gly Arg Arg Leu Lys Met Pro Met Tyr Ile
106 65 70 75 80

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109 Ala Gly Tyr Lys Thr Phe Asp Gly Arg Arg Val Asp Gly Ile Ile Ala
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113 Ala Tyr Gln Asn Pro Ala Ser Trp Lys
114           100                      105
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119 <211> LENGTH: 134
121 <212> TYPE: PRT
123 <213> ORGANISM: Cryptomeria japonica
127 <400> SEQUENCE: 3
129 Met Lys Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asn Arg Arg Val
130 1           5                      10                      15
133 Phe Ile Lys Arg Val Ser Asn Val Ile Ile His Gly Arg Arg Ile Asp
134           20                      25                      30
137 Ile Phe Ala Ser Lys Asn Phe His Leu Gln Lys Asn Thr Ile Gly Thr
138           35                      40                      45
141 Gly Arg Arg Trp Lys Asn Asn Arg Ile Trp Leu Gln Phe Ala Lys Leu
142           50                      55                      60
145 Thr Gly Phe Thr Leu Met Gly Arg Arg Pro Leu Trp Ile Ile Phe Ser
146 65           70                      75                      80
149 Gly Asn Met Asn Ile Lys Leu Lys Met Pro Met Tyr Ile Ala Gly Tyr
150           85                      90                      95
153 Lys Thr Phe Asp Gly Arg Arg Ala Glu Val Ser Tyr Val His Val Asn
154           100                     105                     110
157 Gly Ala Lys Phe Ile Arg Arg Val Asp Gly Ile Ile Ala Ala Tyr Gln
158           115                     120                     125
161 Asn Pro Ala Ser Trp Lys
162           130
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167 <211> LENGTH: 31
169 <212> TYPE: PRT
171 <213> ORGANISM: Cryptomeria japonica
175 <400> SEQUENCE: 4
177 Ile Phe Ser Lys Asn Leu Asn Ile Lys Leu Asn Met Pro Leu Tyr Ile
178 1           5                      10                      15
181 Ala Gly Asn Lys Arg Arg Phe Ile Lys Arg Val Ser Asn Val Ile
182           20                      25                      30
185 <210> SEQ ID NO: 5
187 <211> LENGTH: 31
189 <212> TYPE: PRT
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195 <400> SEQUENCE: 5
197 Ser Ser Gly Lys Asn Glu Gly Thr Asn Ile Tyr Asn Asn Asn Glu Ala
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201 Phe Lys Val Glu Arg Arg Phe Ile Lys Arg Val Ser Asn Val Ile
202           20                      25                      30
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207 <211> LENGTH: 12
209 <212> TYPE: PRT
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233 Phe Ile Lys Arg Val Ser Asn Val Ile
234 1 5
237 <210> SEQ ID NO: 8
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241 <212> TYPE: PRT
243 <213> ORGANISM: Cryptomeria japonica
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249 Glu Glu Tyr Leu Ile Leu Ser Ala Arg Asp Val Leu Ala Val Val Ser
250 1 5 10 15
253 Lys
257 <210> SEQ ID NO: 9
259 <211> LENGTH: 15
261 <212> TYPE: PRT
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277 <212> TYPE: PRT
279 <213> ORGANISM: Cryptomeria japonica
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286 1 5 10 15
289 Lys Arg Arg Met Lys Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asn
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293 <210> SEQ ID NO: 11
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297 <212> TYPE: PRT
299 <213> ORGANISM: Cryptomeria japonica
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306 1 5 10 15
309 Ala Gly Asn Lys
310 20
313 <210> SEQ ID NO: 12
315 <211> LENGTH: 20
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319 <213> ORGANISM: Cryptomeria japonica
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329 Phe Lys Val Glu
330          20
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335 <211> LENGTH: 13
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339 <213> ORGANISM: Cryptomeria japonica
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346 1          5          10
349 <210> SEQ ID NO: 14
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353 <212> TYPE: PRT
355 <213> ORGANISM: Cryptomeria japonica
359 <400> SEQUENCE: 14
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367 <211> LENGTH: 15
369 <212> TYPE: PRT
371 <213> ORGANISM: Cryptomeria japonica
375 <220> FEATURE:
377 <221> NAME/KEY: MISC_FEATURE
379 <222> LOCATION: (1)..(15)
381 <223> OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 1
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388 1          5          10          15
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393 <211> LENGTH: 15
395 <212> TYPE: PRT
397 <213> ORGANISM: Cryptomeria japonica
401 <220> FEATURE:
403 <221> NAME/KEY: MISC_FEATURE
405 <222> LOCATION: (1)..(15)
407 <223> OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 2
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413 Ser Cys Trp Arg Gly Asp Ser Asn Trp Ala Gln Asn Arg Met Lys
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419 <211> LENGTH: 15
421 <212> TYPE: PRT
423 <213> ORGANISM: Cryptomeria japonica
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429 <221> NAME/KEY: MISC_FEATURE
431 <222> LOCATION: (1)..(15)
433 <223> OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 3
437 <400> SEQUENCE: 17
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455 <221> NAME/KEY: MISC_FEATURE
457 <222> LOCATION: (1)..(15)
459 <223> OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 4
463 <400> SEQUENCE: 18
465 Gln Asn Arg Met Lys Leu Ala Asp Cys Ala Val Gly Phe Gly Ser
466 1          5          10          15
469 <210> SEQ ID NO: 19
471 <211> LENGTH: 15
473 <212> TYPE: PRT
475 <213> ORGANISM: Cryptomeria japonica
479 <220> FEATURE:
481 <221> NAME/KEY: MISC_FEATURE
483 <222> LOCATION: (1)..(15)
485 <223> OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 5
489 <400> SEQUENCE: 19
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492 1          5          10          15
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497 <211> LENGTH: 15
499 <212> TYPE: PRT
501 <213> ORGANISM: Cryptomeria japonica
505 <220> FEATURE:
507 <221> NAME/KEY: MISC_FEATURE
509 <222> LOCATION: (1)..(15)
511 <223> OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 6
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525 <212> TYPE: PRT
527 <213> ORGANISM: Cryptomeria japonica
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537 <223> OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 7
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547 <210> SEQ ID NO: 22
549 <211> LENGTH: 15
551 <212> TYPE: PRT
553 <213> ORGANISM: Cryptomeria japonica

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VERIFICATION SUMMARY

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